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RAW SEQUENCE LISTING

DATE: 06/26/2002

PATENT APPLICATION: US/10/054,665

TIME: 10:06:21

Input Set : A:\875007US2.txt

Output Set: N:\CRF3\06262002\J054665.raw

ENTERED

4 <110> APPLICANT: Engelhardt, John F.
 5 Duan, Dongsheng
 7 <120> TITLE OF INVENTION: Adeno-associated virus vectors
 9 <130> FILE REFERENCE: 875.007US2
 11 <140> CURRENT APPLICATION NUMBER: US 10/054,665
 C--> 12 <141> CURRENT FILING DATE: 2002-06-13
 14 <150> PRIOR APPLICATION NUMBER: US 09/276,625
 15 <151> PRIOR FILING DATE: 1999-03-25
 17 <150> PRIOR APPLICATION NUMBER: US 60/086,166
 18 <151> PRIOR FILING DATE: 1998-05-20
 20 <160> NUMBER OF SEQ ID NOS: 13
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 20
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Adeno-associated virus
 29 <400> SEQUENCE: 1
 30 cgggggtcgt tgggcggtca 20
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 19
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Adeno-associated virus
 37 <400> SEQUENCE: 2
 38 gggcgagacc tatggaaaa 19
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 505
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: A consensus sequence
 48 <400> SEQUENCE: 3
 49 cgggggtcgt tgggcggtca gccaggcggg ccatttacg taagttatgt aacgactgca 60
 50 ggcattgcaag ctgcaattca tcggtagata agtagcatgg cgggttaatc attaaactaca 120
 51 aggaaccctt agtgatggag ttggccactc cctctctgcg cgctcgctcg ctgctgagg 180
 52 ccgggcgacc aaaggtcgcc cgacgccggg gctttgcccg ggcggcctca gtgagcgagc 240
 53 gaggcgcgag ctgcgcgctc gctcgctcac tgaggccgccc cgggcaaagc ccgggcgtcg 300
 54 ggcgaccttt ggtcgcccg cctcagcgag cgagcgagcg cgagagagg gaggggccaa 360
 55 ctccatcact aggggttcct tgtagttaat gattaaccg ccatgctact tatctacagc 420
 56 ttgcatgcat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc 480
 57 tggcggtttt ccataggctc cgccc 505
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 272
 61 <212> TYPE: DNA

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62 <213> ORGANISM: AAV circular intermediate, clone p81
64 <400> SEQUENCE: 4
65 gcatgcaagc tgtagataag tagcatggcg ggttaatcat taactacaag gaaccocctag      60
66 tgatggagtt ggccactccc tctctgcgcg ctgcctcgct cactgaggcc gggcggccaa      120
67 aggtcgcccg acgcccgggc ttggcccggg cggcctcagt ggcgagcga gcgcgcagag      180
68 agggagtggc caactccatc actaggggtt ccttgtagtt aatgattaac ccgccatgct      240
69 acttatctac cgatgaattc gagcttgcat gc      272
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 300
73 <212> TYPE: DNA
74 <213> ORGANISM: AAV circular intermediate, clone p79
76 <400> SEQUENCE: 5
77 gcatgcaagc tgtagataag tagcatggcg ggttaatcat taactacaag gaaccocctag      60
78 tgatggagtt ggccactccc tctctgcgcg ctgcctcgct cactgaggcc gggcggcgcg      120
79 tcgctcgctc actgaggccg ggcgacccaa ggtcgccoga gcccgggctt tgcccgggcg      180
80 gcctcagtga gcgagcgcgc gcgcagagag ggagtggcca actccatcac taggggttcc      240
81 ttgtagttaa tgattaacct gccatgctac ttatctaccg atgaattcga gcttgcatgc      300
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 272
86 <212> TYPE: DNA
87 <213> ORGANISM: AAV circular intermediate, clone p1202
89 <400> SEQUENCE: 6
90 gcatgcaagc tgtagataag tagcatggcg ggttaatcat taactacaag gaaccocctag      60
91 tgatggagtt ggccactccc tctctgcgcg ctgcctcgct cactgaggcc gggcgaccaa      120
92 aggtcgcccg acgcccgggc ttgggtcgcc cggcctcagt ggcgagcga gcgcgcagag      180
93 agggagtggc caactccatc actaggggtt ccttgtagtt aatgattaac ccgccatgct      240
94 acttatctac cgatgaattc gagcttgcat gc      272
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 165
98 <212> TYPE: DNA
99 <213> ORGANISM: Unknown
101 <220> FEATURE:
102 <223> OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
104 <400> SEQUENCE: 7
105 aggaaccctt agtgatggag ttggccaactc cctctctgcg cgctcgctcg ctcaactgagg      60
106 ccgggcgacc aaaggctgcc cgaacggcgg gctttgcccg ggcggcctca gtgagcgagc      120
107 gagcgcgcag agagggagtg gccaactcca tcaactaggg ttctt      165
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 282
111 <212> TYPE: DNA
112 <213> ORGANISM: rAAV circular intermediate, clone p79
114 <400> SEQUENCE: 8
115 ggcggggccat ttaccgtaag ttatgtggcg actgcaggca tgcaagctcg aattcatcgg      60
116 tagataagta gcatggcggg ttaatcattg cctacaaaga gccctagtgt atggagtggg      120
117 ccaactccctc tottcgccga gcgcgcagag agggagtggc caactccctc actaggggtt      180
118 cctggcagtt aatgattaac ccgccatgct acttatctac agcttgcatg catgtgagca      240
119 aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tg      282
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 345

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123 <212> TYPE: DNA
124 <213> ORGANISM: rAAV circular intermediate, clone p80
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128 taagtagcat ggcgggttaa tcattaacta caaggaaccc ctagtgatgg agttggccac      120
129 tccctctctg cgcgctcgct cgctcgctca ggccgggcca ccaaaggctg cccgacgccc      180
130 gcccggcctc agcgagcgag cgagcgcgca gagagggagt ggccaactcc atcactaggg      240
131 gttccttgta gttaatgatt aaccgcgcct gctacttata tacagcttgc atgcatgtga      300
132 gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttg      345
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 276
136 <212> TYPE: DNA
137 <213> ORGANISM: rAAV circular intermediate, clone p81
139 <400> SEQUENCE: 10
140 ggccatttac cgtaagttat gtggcgactg caggcatgca agctcgaatt catcggtaga      60
141 taagtagcat ggcgggttaa tcattgccta caaagagccc ctagtgatgg agcccgccct      120
142 caccgagcga gcgagcgcgc agagagggag tggccaactc catcactagg gttccttggt      180
143 agttaatgat taaccgcgca tgctacttat ctacagcttg catgcatgtg agcaaaaggc      240
144 cagcaaaagg ccaggaaccg taaaaaggcc gcgttg      276
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 316
148 <212> TYPE: DNA
149 <213> ORGANISM: rAAV circular intermediate, clone p86
151 <400> SEQUENCE: 11
152 ggccatttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga      60
153 taagtagcat ggcgggttaa tcattaacta caaggaaccc ctagtgatgg agttggccac      120
154 tccctctctg cgcgctcgct cgctcgctga ggccgccccg gcctcagcga gcgagcgagc      180
155 ggcgagagag ggaactggcca actccatcac taggggttcc ttgtagttaa tgattaacct      240
156 gccatgctac ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga      300
157 accgtaaaaa ggccgc      316
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 208
161 <212> TYPE: DNA
162 <213> ORGANISM: rAAV circular intermediate, clone p87
164 <400> SEQUENCE: 12
165 ggccatttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga      60
166 taagtagcat ggcgggttaa tcattgccta caaagagccc ctagtgatgg aattggaatg      120
167 attcaccctc catgctactt atctacagct tgcattgatg tgagcaaaag gccagcaaaa      180
168 ggccaggaac cgtaaaaagg ccgcgttg      208
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 310
172 <212> TYPE: DNA
173 <213> ORGANISM: rAAV circular intermediate, clone p88
175 <400> SEQUENCE: 13
176 gccatttacc gtaagttatg taacgactgc aggcattgcaa gctcgaattc atcggtagat      60
177 aagtagcatg ggcgggttaa cattgcctac aaagagcccc tagtgatgga gttggccact      120
178 cccctctctg cgcgctcgct gctgggcccc gcctcagcga gcgagcgagc gcgagagag      180
179 ggagtggcca actccatcac taggggttcc ttgtagttaa tgattaacct gccatgctac      240
180 ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa      300

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181 ggccgcgttg

310

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date